TWO-STEP MASCARA

PRIORITY

[0001] This application is a CIP of U.S. Application No. 10/666,368, filed September 19, 2003, the contents of which are incorporated herein by reference.

BACKGROUND OF THE INVENTION

[0002] Mascaras are commonly prepared as wax-based formulations according to two types. Washable mascaras, which can be removed with soap and water, generally come in the form of an emulsion of waxes in water such as creams, as well as in gels. Waterproof mascaras, which require use of oils for removal, generally come in the form of dispersions of waxes in organic solvents.

Each type of mascara has advantages Application of washable mascaras enhances disadvantages. volume; that is, they thicken the eyelashes. they are prone to smudge such as when rubbed. In addition, they are not resistant to water. mascaras on the other hand are relatively water-resistant and are less likely to run or smudge. However, unlike washable mascaras, they cannot be removed simply with soap They require the use of organic based water. cleansing agents such as mineral oil.

There have been many developments in cosmetics [0004] eyelashes and eyebrows aimed application to improvement one or more of these properties, or other properties such as ease of application, homogeneity, comfort and good hold. For example, mixtures of waxes have been used to combine properties such as film hardness and adhesion to the lash. See, e.g., WO-A-95/15741. Patent 6,464,967 teaches the use of specific polyolefin waxes in mascara compositions. U.S. Patent 6,375,941 is directed to a wax-free mascara composition that contains

film-forming polyurethane. U.S. Patent 5,879,668 teaches waterproof mascara in the form of a water-in-oil (W/O) emulsion in which water (the disperse phase) is emulsified in oil (the continuous phase). The oil is preferably a C_{10} - C14 saturated, linear or branched, hydrocarbon, more preferably a C_{11} - C_{13} saturated, linear or branched, hydrocarbon, more preferably a branched C12 saturated hydrocarbon such as isododecane. Of course, mixtures of these hydrocarbons may be used and often are provided by "technical" grades of these hydrocarbons. commercial The emulsions are contain solid particles, preferably pigment particles and preferably at least two different types of surfactants, one being an a "oil surfactant" having a hydrophobic-lipophobic balance (HLB) of from 3-4.5, the other being a "water surfactant" having an HLB of 5.5-7.5.

SUMMARY OF THE INVENTION

[0005] A first aspect of the present invention is directed to a method of applying mascara to eyelashes, comprising: a) applying a washable mascara composition to the eyelashes; followed by b) applying a waterproof mascara composition to the eyelashes, wherein the washable mascara composition, the waterproof mascara composition, or both, contain fibers. Eyelashes treated in accordance with the method of the present invention -- which includes real and false eyelashes -- may have enhanced thickness and exhibit greater water- and smudge-resistance, and ease of removal, compared to typical waterproof and washable mascaras when used alone.

[0006] A second aspect of the present invention is directed to a product or system for applying mascara to eyelashes, comprising a) a first reservoir that contains a washable mascara composition, b) a second reservoir that

contains a waterproof mascara composition, wherein the washable mascara composition, the waterproof mascara composition, or both contain fibers, and c) at least one applicator comprising first and second applicator members for applying the respective mascara compositions.

[0007] A third aspect of the present invention directed to a package containing a system for applying mascara to eyelashes, comprising a) a first reservoir that contains a washable mascara composition, b) reservoir that contains a waterproof mascara composition, wherein the washable mascara composition, the waterproof mascara composition, or both contain fibers, and c) at least applicator comprising first and one applicator elements or members for applying the respective mascara compositions.

BRIEF DESCRIPTION OF THE DRAWINGS

[0008] FIG. 1 is a schematic illustration of an embodiment of a package containing a system for applying mascara to eyelashes according to the present invention.

[0009] FIG. 2 is an exploded schematic view of the system of FIG. 1, showing schematic details of the applicators.

[00010] FIGS. 3A and 3B are schematic illustrations of alternate embodiments of a system for applying mascara to eyelashes.

DETAILED DESCRIPTION

[0010] Washable mascaras can be removed simply by use of soap and water. Waterproof mascaras are not as easily removable, and require use of oil such as mineral oil. Washable or aqueous mascaras generally come in the form of an emulsion of waxes in water (sometimes referred to as cream mascaras), or gels, whereas waterproof mascaras generally come in the form of dispersions of a fatty phase

that includes one or more waxes in organic solvents (which when lacking water are sometimes referred to as anhydrous mascaras), or water-in-oil emulsions (see, Washable mascaras and waterproof Patent 5,879,668). mascaras may contain many similar ingredients (e.g., waxes and film-forming polymers), the main differences between them being in the relative amounts of the ingredients, particularly water. Generally, water content of washable mascaras ranges from about 20 to about 80% by weight, and preferably from about 30 to about 60% by weight of the In contrast, water content mascara composition. waterproof mascaras generally ranges from about 0 to about 60% by weight, and preferably from about 0 to about 35% by weight of the mascara composition. One or more watermiscible solvents may also be present in either type of Examples include lower monoalcohols containing mascara. from 1 to 5 carbon atoms, C_3 - C_4 ketones and C_3 - C_4 aldehydes. A preferred water-miscible solvent is ethanol. The content of water-miscible solvents generally ranges from about 0.1% to about 15% by weight, and preferably from about 1% to about 8% by weight relative to the total weight of the mascara composition.

Washable and waterproof mascaras usually have Viscosity is important from the different viscosities. standpoints οf fast and easy application of composition, as well as uniform coating over the entire length of the eyelashes. Generally, viscosity of washable mascaras ranges from about 10 to about 60 pascal seconds (Pa*s), and preferably from about 20 to about 40 Pa*s, whereas viscosity of waterproof mascaras ranges from about 10 to about 70 Pa.s, and preferably from about 10 to about 40 Pa*s. Viscosity is measured at 25 °C with a Rheomat RM 180 viscometer fitted with a No. 4 rotor, wherein the

measurement is carried out after spinning the rotor for 10 minutes (after which time stabilization of the viscosity and of the rotor spin speed are observed), at a shear rate of 200 s^{-1} .

Viscosity may be adjusted by adding a thickener. [0012] examples include cellulose-based Representative example, water-soluble cellulose-based thickeners, for hydroxyethylcellulose, thickeners, such as hydroxypropylcellulose methylcellulose, carboxymethylcellulose. Among these thickeners, specific examples include the gums sold under the name "Cellosize company Amerchol, QΡ 4400 H" by the guar gum, particular, those sold under the name Vidogum GH 175 by the company Unipectine and under the name Jaguar C by the company the quaternized guar gum sold under the name "Jaguar C-13-

the quaternized guar gum sold under the name "Jaguar C-13-S" by the company Meyhall, nonionic guar gums comprising C1-C6 hydroxyalkyl groups, e.g., hydroxymethyl, hydroxyethyl, hydroxypropyl and hydroxybutyl groups. Such guar gums are sold, in particular, under the trade names Jaguar HP8, Jaguar HP60, Jaguar HP120 and Jaguar HP 105 by the company Meyhall, or under the name Galactasol 40H4FD2 by the company

Other examples of thickeners include xanthan gum, carob gum, scleroglucan gum, gellan gum, rhamsan gum and karaya gum, alginates, maltodextrin, polysaccharide resins such as starch and its derivatives, hyaluronic acid and its salts, clays, and, in particular, montmorillonites, hectorites and laponites, crosslinked polyacrylic acids, such as the "Carbopol" products from the company Goodrich, the polyglyceryl (meth)acrylate polymers sold under the names "Hispagel" or "Lubragel" by the companies Hispano Quimica or Guardian, polyvinylpyrrolidone (PVP), polyvinyl

alcohol, crosslinked acrylamide polymers and copolymers, such as those sold under the names "PAS 5161" or "Bozepol C" by the company Hoechst, "Sepigel 305" by the company SEPPIC, crosslinked methacryloyloxyethyltrimethylammonium chloride homopolymers sold under the name "Salcare SC95" by the company Allied Colloid, and associative polymers and, in particular, associative polyurethanes.

[0013] The mascaras suitable for use in the present invention typically contain a thickener in an effective amount for the composition to have the viscosity as defined above. The thickener content can range, for example, from 0.1% to 10% by weight relative to the total weight of the composition, and preferably from 0.5% to 5% by weight.

A variety of waxes may be present [0014] mascaras of the present invention, including waxes of animal origin, waxes of plant origin, waxes of mineral origin and waxes of synthetic origin. Examples of waxes of animal origin include beeswaxes, lanolin waxes and Examples of waxes of plant origin Chinese insect waxes. include rice waxes, carnauba wax, candellila wax ouricurry wax, cork fibre waxes, sugar cane waxes, Japan waxes, sumach wax and cotton wax. Examples of waxes of mineral origin include paraffins, microcrystalline waxes, montan waxes and ozokerites. Examples of waxes synthetic origin include polyolefin waxes, waxes obtained by Fischer-Tropsch polyethylene waxes, synthesis, waxy copolymers and their esters, and silicone waxes.

[0015] Alternatively, hydrogenated oils of animal or plant origin may be used. Examples include hydrogenated jojoba waxes and hydrogenated oils which are obtained by catalytic hydrogenation of fats composed of a C_8 - C_{32}

linear or nonlinear fatty chain, hydrogenated sunflower oil, hydrogenated castor oil, hydrogenated copra oil, hydrogenated lanolin and hydrogenated palm oils. The waxes are preferably solid and rigid at temperatures below 50 °C.

[0016] Generally, wax content of washable mascaras ranges from about 0 to about 50% by weight, and preferably from about 10 to about 45% by weight of the mascara composition. Wax content of waterproof mascaras generally ranges from about 0 to about 40% by weight, and preferably from about 5 to about 35% by weight of the mascara composition.

[0017] The fibers useful in the present invention may be chosen from natural and synthetic fibers. Natural fibers include, but are not limited to, cotton, silk, wool, and other keratin fibers. Synthetic fibers include, but are not limited to, polyester, rayon, nylon and other polyamide fibers.

Yet other fibers useful in the present invention [0018] include those described in EP 1172078. The fibers disclosed in this publication include types of elastofibers. fibers are chemical fibers, extremely stretchable, which regain their primary shape as soon as the tractive Representative examples include force is interrupted: (abbreviations: ELor Spandex®)), elastane polymerized fibers, which contain at least 85% by weight segmented polyurethane, and elastodiene of (abbreviation: ED) containing synthetic polyisoprenes or high polymers, which are obtained from the polymerization of one or more dienes, by optionally adding one or several Rubbery fibers (abbreviation: LA) issued vinyl monomers. from natural rubber may also be included in the second The elastodienes are often vulcanized. A fiber group.

composed of both polyamide and polyurethane also has elastic properties.

[0019] The fibers, may, for example, be present in the washable composition, the waterproof composition, or in both compositions, and may be the same or different. The fibers are present in an amount generally ranging from about 0.1% to about 20% relative to the total weight of the composition. In some embodiments, the fibers are present in an amount ranging from about 0.2% to about 10% relative to the total weight of the composition. The fibers typically have an average length ranging from about 0.5 mm to about 4.0 mm, such as from about 1.5 mm to about 2.5 mm.

[0020] The composition according to the invention may additionally comprise a film-forming polymer which can be solubilized and/or in the form of particles in dispersion in the aqueous phase. The film-forming polymer can be selected from keratin derivatives, such keratin as hydrolysates and sulphonic keratins; anionic, cationic, amphoteric or nonionic derivatives of chitin or chitosan; cellulose derivatives such as hydroxyethylcellulose, hydropropylcellulose, methylcellulose, ethylhydroxyethylcellulose, carboxymethylcellulose, quaternized derivatives of cellulose; acrylic polymers or copolymers, such as polyacrylates or polymethacrylates; polyvinylpyrrolidones (PVP) and vinyl copolymers, such as methyl vinyl ether-maleic anhydride copolymers, or vinyl acetate-crotonic acid copolymer; water-dispersible anionic and/or polyester polymers comprising polyesteramide monomers bearing a functional group -- SO₃M, in which M represents a hydrogen atom, an ammonium ion NH4+ or a metal ion, such as, for example, an Na⁺, Li⁺, K⁺, Mg²⁺, Ca²⁺, Cu²⁺, Fe^{2+} or Fe^{3+} ion. Specific examples of the polymers

3,734,874, 4,233,196 described in U.S. Patents Polyurethane polymers, especially anionic, 4,304,901. cationic, nonionic or amphoteric polyurethanes, acrylic polyvinylpyrrolidone polyurethanes, polyurethanes, polyurethanes, polyether polyurethanes, polyester polyureas, polyurea/polyurethanes, and mixtures thereof; and polymers of natural origin, modified if desired, such as gum arabic, guar gum, xanthan derivatives, karaya gum; glycoaminoglycans, and carragheenates; hyaluronic acid and its derivatives; shellac, sandarac gum, dammars, elemis and copals, are also useful. The film-forming polymer can be present in the compositions in an amount of dry matter generally ranging from about 0.1% to about 20% by weight relative to the total weight of the mascara composition.

Preferred film-formers include combinations of a [0021] first tacky film former soluble or dispersible in water, and a second tacky film former soluble in oil. For invention, the term "soluble purposes of this dispersible in water" means that the substance in question will not precipitate out or coagulate, e.g., that it dissolves up to the limit of saturation. The term "soluble in oil" means "miscible in oil"; in other words, if a substance is not soluble in oil, it is immiscible, forming distinct layering in the oil phase, an indication that the substance is not compatible or soluble in the oil phase. For purposes of this invention, "tacky" is defined as sticky or adhesive to the touch. The combination of tacky film formers may allow, in at least embodiments, one or more of the following to occur: allow the fibers to adhere to the eyelashes, allow optimal water resistance and allow minimal flaking.

Examples of the at least one tacky film former [0022] soluble or dispersible in water include polyvinyl alcohols (such as the AIRVOL series from Air Products); polyvinyl acetates (such as FULATEX (R) sold by H.B. Fuller Co.); cellulose acetate phthalate aqueous dispersions (such as AQUACOAT CPD sold by FMC Corp.); and acrylates copolymers, DAITOSOL 5080 AD sold by Kobo such as vinylpyrrolidone/acrylates/lauryl methacrylate copolymers STYLEZE 2000 sold by ISP), acrylates/C₁₋₂ succinates/hydroxyacrylates copolymers (such as ALLIANZ LT-120 sold by ISP), PVP/DMAPA acrylates copolymers (such as STYLEZE CC-10 sold by ISP), and crosslinked poly (2ethylhexyl acrylates) in water (such as GEL-TAC 100 series In one embodiment, the at least one tacky sold by API). film former soluble or dispersible in water is chosen from an acrylates copolymer and polyvinyl acetates. least one tacky film former soluble or dispersible in water is present in the mascara composition in an amount of dry matter generally ranging from about 0.1% to about 20% relative to the total weight of the composition. embodiments, the at least one tacky film former soluble or dispersible in water is present in an amount ranging from about 1% to about 15%, relative to the total In yet other embodiments, the weight of the composition. at least one tacky film former soluble or dispersible in water is present in an amount ranging from about 1% to total weight of about 10%, relative to the the composition.

[0023] The at least one tacky film former soluble in oil is preferably chosen from hydrogenated polyisobutenes, adipic acid/diethylene glycol/glycerin crosspolymers (such as that sold as LEXOREZ 100 by Inolex), polyethylenes, and polyvinyl laurates. In some embodiments, the at least one

oil-soluble tacky film former is chosen from hydrogenated Hydrogenated polyisobutenes are available polyisobutenes. for example, Collaborative Laboratories, under the name POLYSYNLANE. some Setauket, NY, embodiments, the hydrogenated polyisobutenes to be used in the claimed invention have a weight average molecular weight of greater than 1500. In other embodiments, the hydrogenated polyisobutenes have a weight average molecular weight greater than 2000 and in yet other embodiments, they have a weight average molecular weight The at least one tacky film former greater than 3000. soluble in oil may, for example, be present in the composition in an amount generally ranging from about 0.5% about 30%, relative to the total weight of composition. In some embodiments, the at least one tacky film former soluble in oil is present in the composition in an amount ranging from about 1% to about 20%, relative to the total weight of the composition. In yet other embodiments, the at least one tacky film former soluble in oil may be present in the composition in an amount ranging from about 1% to about 15%, relative to the total weight of the composition.

The mascara compositions of the invention may contain emulsifying surfactants. Surfactants can be selected from amphoteric, anionic or nonionic surfactants. Encyclopedia of Chemical Technology, OTHMER, volume 22, pp. 333-432, 3rd edition, 1979, Wiley, for the definition of the properties and (emulsifying) functions of the surfactants, in particular pp. 347-377 of publication regarding anionic and nonionic Examples of surfactants useful surfactants. in the mascara compositions of the invention are include nonionic surfactants, fatty acids, fatty alcohols,

polyethoxylated fatty alcohols or polyglycerolated fatty alcohols, such as polyethoxylated stearyl alcohols cetylstearyl alcohols, esters of fatty acid and sucrose, and glucose alkyl esters, in particular polyoxyethylenated C₁ - C₆ alkyl glucose fatty esters, and as surfactants, C16 - C30 fatty acids neutralized by amines, ammonia or the alkali metal salts thereof. Examples of amphoteric surfactants include betaines, sultaines, alkyl amphodiacetates, hydroxysultaines, amphodipropionates, and imidazolines, or salts thereof. Other fatty acid condensates such as those formed with amino acids, proteins, and the like are suitable as well. include Specific examples cocamphodipropionate, Miranol C2M-SF (disodium cocamphodipropionate), its form, available from Rhone-Poulenc, and C-50 (cocamidopropyl hydroxysultaine), Crosultaine available from Croda.

[0025] In washable mascaras, surfactants are selected in order to obtain an oil-in-water emulsion. examples include triethanolamine and stearic acid. Tn waterproof mascaras, surfactants are often facilitate dispersion of pigments. Preferred examples include lecithins. Lecithins are mixtures phospholipids, i.e., of diglycerides of fatty acids linked to an ester of phosphoric acid. Preferably, lecithins are diglycerides of stearic, palmitic, and oleic acids linked to the choline ester of phosphoric acid. Lecithin is usually defined either as pure phosphatidyl cholines or as crude mixtures of phospholipids which include phosphatidyl choline, phosphatidyl serine, phosphatidyl ethanolamine, phosphatidyl inositol, other phospholipids, and a variety of other compounds such as fatty acids, triglycerides, sterols, carbohydrates, and glycolipids. See, e.g., U.S.

Patent 6,015,574 and 6,221,389. Lecithins may also be present in washable mascaras. Surfactants are generally present in amounts ranging from about 2 to about 30% by weight, and preferably from about 5% to about 15% by weight, relative to the total weight of the mascara composition.

composition of the invention additionally comprise ingredients that are commonly used in cosmetics, such as plasticizers, coalescence agents, fillers, dyestuffs, such as pigments or dyes, preserving agents, oils, cosmetic agents, such as moisturizers and anti-UV agents vitamins, trace elements, softeners, sequestrants, perfumes, oils, silicones, proteins, basifying ceramides, cohesion agents, and the acidifying agents that are commonly employed cosmetics field.

Pigments include organic, white or colored, and [0027] coated or uncoated particles. Among the mineral pigments which may be useful are titanium dioxide, optionally surface-treated, zirconium oxide, zinc oxide or cerium oxide, as well as iron oxide, chromium oxide, manganese violet, ultramarine blue, chromium hydrate and ferric blue. Among the organic pigments that may be useful is carbon black, pigments of D&C type, and lakes based on cochineal carmine or on barium, strontium, calcium or these organic pigments may aluminium. For example, include D&C Red No. 7 Calcium Lake, D&C Red No. Aluminum Lake, FD&C Yellow No. 5 Aluminum Lake, and FD&C Blue No. 1 Aluminum Lake. The at least one pigment of the invention may be chosen from the above and any other pigment or treated pigment known in the cosmetic arts. The at least one pigment may also be chosen from pearling agents, such as, for example, mica, iron oxides, titanium dioxide and any other pearling agent known in the cosmetic arts. The mascara compositions may contain at least one pigment in an amount generally ranging from about 0.5% to about 15% by weight relative to the total weight of the composition. In some embodiments, the at least one pigment is present in an amount ranging from about 1% to about 12% by weight relative to the total weight of the composition.

silica is particularly [0028] In terms of fillers, thicker make-up effect on the useful obtain to a eyelashes. talc and Starches such as rice starch, polytetrafluoroethylene are highly compatible with aqueous medium and allow a smooth, shiny film of make-up to be Fillers are generally present in the mascara compositions in an amount of about 0.1% to about 6% by weight relative to the total weight of the mascara composition.

[0029] In addition to the foregoing teachings, examples of specific washable and waterproof mascara compositions are legion in the prior art. See, e.g., U.S. Patent 6,264,933 for examples of waterproof mascaras, and U.S. Patent 5,985,258 for examples of washable mascaras.

[0030] The methods of the present are practiced simply by applying to the eyelashes the washable mascara, followed by applying the waterproof mascara. The waterproof mascara may be applied immediately after application, but generally anytime from about 30 seconds to about 10 minutes after application of the washable mascara.

[0031] With reference to FIGS. 1-3, the mascara compositions of the invention may be provided in a mascara product or system comprising two reservoirs, each of which contains one of the mascara compositions, and applicators

for applying each of the compositions to the eyelashes. mascara product or system may be conveniently packaged in a variety of forms. As best shown in FIG. 1, one example of such preferred packaging includes a blister The reservoirs 14 and 16 are housed in the pack 10. blister pack 10, which comprises translucent plastic material (not shown) attached to a cardboard substrate The backing may be generally rectangular in backing 12. shape. Any shape that is capable of preventing any direct handling of the products by customers is contemplated and within the scope of the present invention. See, e.g., U.S. Patent 6,378,727.

[0032] Each reservoir 14 and 16 is positioned within the blister pack 10, preferably in a side-by-side manner. Each reservoir includes corresponding applicator portions 18 and 20, which are discussed below in detail.

[0033] The reservoirs typically are provided with an opening 15, 17 that accommodates a liquid-removal applicator) system. As best seen in FIG. applicator portions 18, 20 typically comprise a rod 22, 24 equipped at a first end with an applicator member 26, 28 such as a brush, and at a second end with a handle component 30, 32 that acts as both a manipulating the applicator by the user, and as a cap for closing the reservoir, preferably in a leak-tight manner (e.g., the handle component itself is configured to close the reservoir).

[0034] The applicator member 26, 28 preferably comprises bristles 34, 36 arranged radially around a twisted core 38, 40, such as a metal core. The brush can be of varied shapes and can comprise cutout sections. Mascara brushes are described, for example, in French Patent Application No. FR-A-2,607,373 and European Patent

Application Nos. EP-A-611,170, EP-A-811,336, EP-A-811,337 and EP-A-842,620.

The respective applicator members 26, 28 may be [0035] In some embodiments, they are the same or different. different. For example, application of the washable mascara may be facilitated with a relatively full and soft brush 34. An example of such a brush is described in U.S. Patent 4,887,622. The disclosed brushes include a central core formed by a twisted iron wire holding a helical array of radial bristles in a regular manner characterized by the fact that the bristles have a diameter between about 0.10 and about 0.25 millimeters (mm), and the number of bristles per turn being between about 10 and about 40.

A preferred example of an applicator member 28 for applying waterproof mascara is described in U.S. The brushes disclosed in this patent Patent 4,993,440. contain a central elongate core around which are implanted bristles disposed in a substantially radial fashion and regularly distributed. Each bristle 36 of at least one portion of the brush comprises on its surface at least one capillary channel (not shown) extending substantially from its base as far as its tip. Preferably, all the bristles of the brush have capillary channels. The brush is evenly charged and a homogeneous distribution of the mascara on the eyelashes is achieved. Further, the systems and packages of the present invention may further contain indicia such as directions or instructions (e.g., printed information) for using the mascara compositions.

[0037] Alternate embodiments of mascara systems are shown in FIGS. 3A and 3B. In FIG. 3A, the reservoirs 14 and 16 are integral with each other, e.g., their respective bottom or side surfaces are fastened together in some manner. In another alternate embodiment shown in

Fig. 3B, one applicator 50 is provided, which contains a single handle component 18' and two stems 22, 24 oppositely opposed from the handle component, wherein each stem has an applicator member 26, 28 at its opposite end. The handling component contains a cap configured to close each of the reservoirs, preferably in a leak-tight manner.

[0038] The present invention is further described in terms of the following non-limiting examples. Unless otherwise indicated, all parts and percentages are on a weight-by-weight basis.

[0039] Example 1: Washable Mascara

[0040] The following mascara composition was made with a combination of lecithin, an amphoteric surfactant and a nonionic surfactant (LAN).

	Washable Mascara With Fibers		
	CTFA Name		٩
A	Water	34.830	
	PVP-K-30 (PVP/VA Copolymer, GAF/BASF)	1.000	
	Butylene Glycol	2.000	
	Hydroxyethylcellulose	0.350	
		0.250	
	Disodium EDTA	0.200	
	Triethanolamine	1.500	
	Simethicone (Mirasil SM from Rhodia		
	Chimie)	0.100	
	KAMA KM 13 (Polysaccharide Resin from		
	Kama Int'l)	0.950	
	Black Iron Oxide	8.000	
	Polymethyl methacrylate isopropyl		
	titanium triisostearate	2.000	
	Nylon-12 (Orgasol 2002D from Atochem)	2.000	
В	Rayon (Rayon Flock Rcise N0003 M04) Poly Toluylene Co Trimellic Amide Imide	0.500	
	(from Kermel)	0.500	
С	Beeswax	4.700	
	Glyceryl Stearate	4.000	
	Paraffin	2.700	
	Carnauba wax	3.400	
	Stearic acid	3.000	

	Butylparaben	0.100
	PVP/eicosene Copolymer (GANEX V220, from ISP)	1.500
	PERFORMA V103 polymer (Synthetic wax from	1.500
	New Phase)	1.000
	2-Oleamido-1, 3-Octadecanediol (Ceramide)	0.020
	Cyclopentasiloxane (DC 245from Dow	
D	Corning)	2.000
	Cyclopentasiloxane /Dimethiconol (DC 2-	
	9071 from Dow Corning)	3.000
	Silica	1.000
	Polyethylene (MICROPOLY 524 from	0 000
	Presperse)	2.000
E	Lecithin (ALCOLEC F100)	0.100
£	(L) Disodium Cocoamphodipropionate (MIRANOL)	0.100
	(A)	0.400
	Isoceteth-20 (ARLASOLVE 200)	
	(N)	0.500
	Simethicone (Mirasil SM from Rhodia	
	Chimie)	0.020
	Methylparaben	0.002
	Propylparaben	0.002
	Disodium EDTA	0.002
	Octylacrylamide/Acrylates/Butylaminoethy	
	Methacrylate Copolymer (AMPHOMER LV-71)	0.120
	Diazodinyl Urea	0.006
	Vitamin E Acetate	0.010 3.838
	Water PPG-17/IPDI/DMPA/Copolymer (AVALURE UR450	3.838
F	from BFGoodrich)	10.000
G	Diazodinyl Urea	0.300
•	Water	1.000
н	Panthenol	0.500
	Water	0.500
r	Vitamin E Acetate	0.100
•	,	100.000

[0041] To prepare the washable mascara, the PVP/VA was added to water, using a homogenizer to disperse and heat to 60°C. Premixed butylene glycol and hydroxyethylcellulose were added to the dispersion. Upon dispersion, methylparaben, disodium EDTA, triethanolamine, simethicone, and polysaccharide resin respectively, were added. Upon achieving a uniform dispersion, iron oxide

was added. Polymethyl methacrylate isopropyl titanium triisostearate and Nylon -12 were added sequentially with milling until the mixture was well dispersed. resultant dispersion was transferred to a paddle mixer. The fibers of phase B were added and mixed for 15 minutes. Phases A and B were heated to 85°C to 90°C. Phase C ingredients were mixed separately and then heated to 85°C to 90°C. Phase C was added to phases A and B, followed by After emulsification was emulsifying for 15 minutes. complete, the mixture was transferred to sweep mixing and Premixed phase D was added slowly. air-cooled to 60°C. Once uniform, premade-premixed phase E was added slowly at Once uniform, phase F was added very slowly, at a temperature of 45°C, and mixed until uniform. phases G, H and I were added at 40°C, and the resultant mixture was cooled to 30-32°C.

[0042]

Example 2: Waterproof Mascara

	Mascara (WATERPROOF) With Fibers CTFA Name	%
A	Petroleum Distillates (Shellsol OMS from Shell) Iron Oxide Lecithin (Alcolec BS from American Lecithin) Methylparaben	46.830 6.500 0.100 0.400
В	Quaternium - 18 Hectorite	6.250
С	Rice Starch (RemyDRI from Remy)	1.000
D	Isoparaffin (Isopar E from Exxonmobil Chemical)	10.500
E	Propylene Carbonate	0.950
F	Rayon (Rayon Flock Rcise N0003 M04) Poly Toluylene Co Trimellic Amide Imide (from Kermel)	0.100

G	Paraffin Carnauba Beeswax Synthetic Beeswax (Cylochem 326A from Goldschmidt(Degussa) Allylstearate/VA Copolymer (Mexomere PQ from Chimex) Polyvinyl Laurate (Mexomere PP from Chimex) Silica (Spheron P1500 from catalyst & chemicals) 2-Oleamido-1, 3-Octadecanediol (Ceramide)	2.300 4.700 4.900 3.400 2.500 1.300 1.000
н	Propylene Carbonate	1.100
I	KAMA KM 13 (Polysaccharide Resin from Kama Int'l) Vitamin E Acetate	1.000
J	Lecithin (ALCOLEC F100) (L) Disodium Cocoamphodipropionate (MIRANOL) (A) Isoceteth-20 (ARLASOLVE 200) (N) Simethicone (Mirasil SM from Rhodia Chimie) Methylparaben Propylparaben Disodium EDTA Octylacrylamide/Acrylates/Butylaminoethy Methacrylate Copolymer (AMPHOMER LV-71) Diazodinyl Urea Vitamin E Acetate Water	0.050 0.200 0.250 0.010 0.001 0.001 0.060 0.003 0.005 3.419
K	Panthenol Water	0.500 0.500

100.000

[0043] To prepare the waterproof mascara, phase A ingredients were added together and homogenized until dispersed at room temperature. Phase B ingredients were added, and homogenized until uniform, followed by addition of phase C and homogenized until dispersed. Once

uniformly dispersed, phases D and E ingredients were added this point batch will become very heavy). resultant dispersion was switched to a paddle mixer and heated to 65°C to 70°C. Phase F was added to dispersion, followed by mixing for 15 minutes. Phase G ingredients were heated to 90-95°C, and then added to the mixture, followed by the addition of phase H. continued for 30 minutes, while maintaining the temperature at 65°C to 70°C. Phase I was prepared and dispersion, and then homogenized until added to the Pre-made phase J was added; the dispersion was uniform. cooled to 45°C using sweep mixing; and pre-mixed phase K was added, followed by cooling to 30°C to 32°C.

[0044] All publications cited in the specification are indicative of the level of skill of those skilled in the art to which this invention pertains. All these publications are herein incorporated by reference to the same extent as if each individual publication were specifically and individually indicated to be incorporated by reference.

Although the invention herein has been described [0045] with reference to particular embodiments, it is to be understood that these embodiments are merely illustrative the principles and applications of the invention. It is therefore to be understood that numerous modifications may be made to the illustrative embodiments arrangements may be devised without that other departing from the spirit and scope of the invention as defined by the appended claims.